

ABSTRACT

The invention relates to a randomly  
5 branched polyamide comprising at least units derived  
from:

1. AB monomers,
2. at least one compound I, being a carboxylic acid ( $A_v$ )  
having a functionality  $v \geq 2$  or an amine ( $B_w$ ) having  
10 a functionality  $w \geq 2$ ,
3. at least one compound II, being a carboxylic acid  
( $A_v$ ) having a functionality  $v \geq 3$  or an amine ( $B_w$ )  
having a functionality  $w \geq 3$ , compound II being a  
15 carboxylic acid if compound I is an amine or  
compound II being an amine if compound I is a  
carboxylic acid and the amounts of all units derived  
from carboxylic acids and amines in the polyamide  
satisfying conditions as mentioned in claim 1.

The composition of the randomly branched  
20 polyamide is such that it cannot form a crosslinked  
polyamide (and thus no gels, either), in particular  
during the prepolymerization, the polymerization, the  
post-condensation, the processing and the storage of  
the randomly branched polyamide, and this at a variety  
25 of ambient factors, for instance at elevated  
temperature and pressure. The polyamide is eminently  
suitable for the production of fibre and film, in  
particular for flat film.

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